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24 February 1960
Refer: XAL-2025

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Gentlemen:

Request for Quotation

In order to satisfy the requirements for a reconnaissance system for which [] has a contract, we must supply a rectifier (presumably an electronic rectifier). We must therefore obtain information on rectifiers which will be available in time for use in this system so we may investigate whether it is possible to design the system to make use of such available instruments. If this is not possible, it will be necessary to produce a rectifier especially designed to satisfy the requirements of the system.

We would therefore like to have you submit to us two quotations on an electronic rectifier as indicated below.

- I. Price and delivery on an electronic rectifier for restitution of oblique photography now being designed by your organization. This rectifier should be quoted for its most advanced configuration. Please list complete specifications including types of oblique photography, focal lengths, resultant tilt angles, resolution throughout the format, accuracy throughout the format, time requirements, equipment size, types of corrections that may be included, format size and other pertinent specifications.
- II. Price, delivery and a technical proposal on an electronic rectifier having the following characteristics:
 1. Types of oblique photography: conventional single frame, panoramic, and strip type.
 2. Types of outputs: positives on film or paper from original oblique negatives.
 3. Format widths: 70mm, 4-1/2 inch, and 9 inch.
 4. Format lengths: on single frame type photographs, lengths of 70mm, 4-1/2 inch, and 9 inch; on panoramic photography, lengths of 25 inch; on strip photography, the length may be indefinite and rectification will be done in stages of at least 9 inch sections.
 5. Focal lengths of camera: 24" to 100" inclusive.

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6. Area of rectification: in panoramic rectification no area of the original photograph shall be lost. The extreme ends of the rectified photograph shall not be clipped off.
7. Resultant tilt angle: resultant tilt angle including pitch and roll shall be up to 30° but rectification will be required 5° above the format center in frame and strip type photography. In panoramic photography, rectification is required for scan angles 30° either side of the nadir plus a roll angle of $\pm 5^\circ$ and a pitch angle of $\pm 5^\circ$.
8. Resolution: Standard U.S. Air Force type resolution test patterns up to 80 photographic* lines/mm at a contrast ratio of two to one shall be resolved in the print at the isoline position at all magnifications. The resolution in the rectification shall not degrade to less than 70 lines/mm at 30° to either side of the isoline position measured as above.

* Photographic lines refer to two scan lines in a scan line system. When 80 photographic lines are referred to, then 160 scan lines minimum must be used to achieve the 80 photographic lines.

9. Correction requirements: a capability must be incorporated for correction in rectification due to earth curvature and air refraction when these corrections are significant. Provision must be made for handling oblique photography where a swing angle up to 10° is involved.
10. Accuracy: maximum error in position of any point in the rectification as compared to the theoretically correct position shall not exceed 0.010 inches.
11. A scale change of 1 to 5 enlargement to 2 to 1 reduction is required.
12. Banding: banding shall be kept to a minimum.
13. Other specifications. It shall be stated if darkroom operation is required, the pre-calculation and programming time required, and the time for a complete exposure should be given.

Specification Exceptions: If exception is taken to any of the above specifications, please state them and the resultant effect on price and delivery.

This information is urgently required in order to permit meeting our scheduled commitments. Please advise when you may be able to supply the requested information. Thanking you for your prompt attention to this request, we are

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Very truly yours,

[Redacted Signature]

Administrative Engineer

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